## STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIE. 910 State Office Building Portland, OR 97201

#### HISTORY OF OIL OR GAS WELL

(In compliance with rules and regulations pursuant to ORS 520)

Cos	Development Corp.	ONGDC	1W33d-3
or or	perator)	(Lease)	(Well No.)
. 1. 6	, <sub>R.</sub> 5W	W.B.&M. Surveyed Coordinates:	From the East 1/4
3, W	West 1653' and South 10	013'	
(0)	r) Field Name: Mist-Under	rground Storage county:	Columbia
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		Signature:	The state of the s
		Position:	ten 4 tropanotion
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the this form in reporting the daily operations at the well. (Operator may use his own forms, but heading of this form must also be completed and submitted.) Please submit a complete history of the well. Include such information as hit sizes, and weights, casing sizes and depths set, amount of cement used, drilling depths, fishing, logging, perforating, and plugging procedures, and anything else pertinent to the operation. Do not include lithology.

Dete

- 5-19-1988 Move in. rig up Taylor rig #5. Spud well with 17 1/2" bit. Drilling to 75'
- 5-20-1988 Drilling 17 1/2" surface hole to 410'. losing circulation slowly.
- 5-21-1988 Drilling 17 1/2" surface hole to 585'. Wiper trip for casing. Rig up to run casing. Casing won't go past 41'. lay down casing and pick up bit and ream from below conductor to 70'. Run to bottom and circulate. POH for casing. Rig up to run casing.
- 8 Run 14 jts, 556-50 ft. of 13 3/8', 54.5#, K-55 casing to 570'. Cement 700 sacks class G cement mixed with 2% Cacl. and 1/4#/sack cellophane. Lost mud returns after mixing approximately 500 sacks. No cement to surface. Run 1" pipe down annulus to 330'. Pump 50 sacks class G cement @ 320'. No returns. WOC. Run in with 1" pipe to 330'/
- 5-23-1988 Pump 20 sacks @ 320'. WOC. Run in hole with 1" and tag cement @ 305'. Pump 50 sacks top job @ 300'. Partial mud returns. WOC. Run in and tag cement @ 295'. Pump top job with 80 sacks. Partial mud returns. WOC RIH and tag cement at 285'. Pump 50 sacks at 280'. Full mud returns WOC.
- Tag cement at 220'. Pump 84 sacks. Partial mud returns. WOC. RIH and tag at 190'. Pump 50 sacks top job @ 180'. WOC. RIH and tag cement @ 140'. Pump 85 sacks @ 140'. WOC. RIH and tag @ 75'. Pump 45 Sacks top job. WOC. RIH and tag cement @ 34'. Pump 25 sacks top job. WOC.
- 5-25-1988 WOC. Cut off conductor and casing. Weld on wellhead. Test to 1500 psi. Nipple up BOPE. Pressure test blind rams to 960psi. Pipe rams to 1050 psi and hydril to 550 psi with state rep witnessing.
- Drilling float, cement and shoe. Drilling 12 1/4' hole to 650'. POH and pick up Dyna Dril and tools. Orient tool. Dyna drilling 12 1/4" hole. Kick off point @ 650'. Drilling, circulating and surveying to 920'. POH to change BHA. RIH with rotating assembly.

Form 6 (9/84)

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Ore	egon Natural Gas Development Corp.	ONGDC	1W33d-3
	(Company or operator)  3 , T. 6N , R. 5W	(Lease)	From the Fast 1/4
			es: From the East 1/4
	er of Sec. 3, West 1653' and South 10		
Wildcat	: (or) Field Name: Mist-underg	ground Storage county	y: Columbia
Date:			
form mu	is form in reporting the daily operations at the ust also be completed and submitted.) Please subsizes, mud weights, casing sizes and depths set, ating, and plugging procedures, and anything else	mit a complete history of the we amount of cement used, drilling	err, include such information depths, fishing, logging,
Date			
5-27-1988	Wash and ream to bottom. Drilling to Clean flowline. Drilling to 1408.		
5-28-1988	Drilling to 1590. Circulate and surfrom 935'-1000' and 1490' to bottom. Work pipe. Tight hole. Circulate s 1806' - 1590'. Run in hole. Wash 3	, Drilling to 1806. Ci sweep. Wiper trip to st	irculate and survey. rface. Tight from
5-29-1988	Drilling to 1865'. Circulate for su tight. Change BHA. RIH. Wash and POH for new BHA. Wash and ream 30' t from 1903' - 1780'. POH to unplug to 1934. Wipe 2 stands. Drilling t	ream 100' to bottom. S to bottom. Drilling to jets. RIH and wash to b	Survey. Drilling to 1872'. 1903'. Work tight hole pottom from 1750'. Drilling
5-30-1988	Circulate and survey. Drilling 2062 clean bit. RIH. Ream tight spots. correction. Drilling to 2278'.	2'. 20 stands wiper tri Drilling to 2152'. 2	ip. Drilling. POH to 2 stand wiper trip on every
5-31-1988	Drilling 2266'-2286'. Wiper trip to Drilling to 2369'. 2 stand wiper tr Clean flowline. Drilling to 2431'. Circulate for logger. Drilling to 2	rip. Drilling to 2401'. Flowline plugging up.	. Wiper trip to shoe.
6-1-1988	Drilling to 2581'. Circulate for lo Drilling and circulating breaks to 2 Unplug flowline circulate out gas sh of casing and BOP.	2616. 2 stand wiper tri	ip. Drilling to 2676.
6-2-1988	Run in hole. Wash and ream 130' to Wiper trip to shoe. POH for logs. Neutron and Dipmeter. Wait on order from 2773'-2832'. Wipe hole. Drill RIH.	Rig up Atlas Wireline ars, 6/3. Run in hole ar	and run Dual Induction/sonic of circulate. Drilling

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	(In compliance with rules and regulation	ons pursuanc (	3 OK3 320)			
0-1-0-0	Natural Gas Development Corp.	ONGDC	1W33d-3			
Uregor	1000	(Lease)	(Well No.)			
	o 6M - 5M us 14	Surveyed Coo	rdinates:From the East 1/4			
Sec	c a 2 17 mt 16531 and South [1] 3'					
Wildcat:	(or) Field Name: Mist-underground st	torage 	County:			
	Signature:					
Date:	Position	:				
£	form in reporting the <u>daily</u> operations at the well. (Oper t also be completed and <u>submitted</u> .) Please submit a compl sizes, mud weights, casing sizes and depths set, amount of ting, and plugging procedures, and anything else pertinent		imilling deaths flahing. Ibuuilly.			
Date	·		7.7/01			
	Drilling to 2856'. POH and lay down 12 1/4 assembly. RIH. Drilling to 2879'. POH. 8 1/2" bit with 7 7/8" drilling assembly. 8 1/2" hole to 2887'.	Ream hole	e from 2856'-2879'. Drilling			
6-5-1988	Drilling 8 1/2" hole to 2962 (TD). Circula out to 2856'. POH and pick up 8 1/2" bit. condition mud for logs. POH. Rig up to ru	, ran and	l pick up 12 1/4" bit. RIH and clean vash to bottom. Circulate and			
6-6-1988	Run wireline logs. RIH open ended to 2777 Wait on cement. Tag plug at 2685'. Set 25 at 2660'. Polish off plug to 2682'.	) hing.	Value of Same and			
6-7-1988	RIH open ended. Set cement plug at 2647'-2 plug. Condition mud for casing. POH.					
6-8-1988	Rig up to run casing. Run hydrotest to 20 K-55 casing to 2640'. Cement casing with: Lead Slurry:464 sack 11 perlite mixed	00psi 68 j .wit. 2% c	oints (2647') of 8 5/8'. 32#, acl <sub>2</sub> 2% gel, .75% Halad 4,			
	3% KCl. Tail Slurry: 860's X Class G mixed w 3% KCl, 200 bbl's cement returns to s	rith 1% Cal urface。 S	cl., 1% CFR-3, .25% Halad 4 and et slips. WOC			
6-9-1988	Nipple bit up tubing head, spool and BOP. BOPE with state representative witnessing.	DETTE	THE WEST OF THE STATE OF THE ST			
6-10-1988	Drilling cement to 2635'. POH. Pick up of mud for logs. Rig up Atlas and run CBL. cement and shoe and clean out to 2682'.	easing scr RIH with	per RIH. Circulate and condition 77/8" assembly. Drill out			
6-11-1988	Mix HEC-10 Mud. Circulate and displace he hole to 15" from 2652'-2682'. POH and rum mix HEC-10. Circulate and displace hole.	ole. POH n caliper Circulat	and pick up under reamer. Open and vertilog. Pump pits and e hole clean for liner.			

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COTT	er of Sec. 3. West 1033 and Boden 1023	·				
Wildcat: (or) Field Name: Mist-underground storage county: Columbia						
Date: _	Signal Po	gnature:sition:				
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Date						
6-12-1988	Pick up 5 1/2" wire-wrapped liner and with 50 sacks 20-40 gravel. Back scut log. RIH with lead seal and set at 26 Set packer at 2534'. Test Annulus to	011 Bid: up packer	and tools and RIH.			
6-13-1988	n and bridgets	est 78 joints and one	pup joint of 5' 6". pitor. Land donut.			